USSR

FEDOROVA, Yu. N., and KARCHIK, O. N., Khimiya v Sel'skom Khozyaystve, Wol 9, No 7, 1971, pp 45-47

sevin in water (0.01%), the insecticide was resorbed rapidly by the roots and accumulated in the plants in amounts which bore no relation to its concentration in the aqueous solution. This had also been observed for other carbanates. The rapid resorption of sevin and other insoluable substances by the roots of plants can be explained by solution of these substances in lipids present in the roots.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

1/2 014 UNCLASSIFIED PROCESSING DATE--11DEC70
TITLE--CHARGES IN ATPASE ACTIVITY IN ATHEROSCLEROTIC RABBITS -U-

AUTHUR-(05)-ASATIANI, V.S., KARCHKHADZE, R.G., SHAMKULASHVILI, G.G., DZHUGELI, I.S., SILAGADZE, T.S.

CEUNTRY OF INFU--USSR

SGURCE-SEGESHCH. AKAD. NAUK GRUZ. SSR 1970, 57(2), 469-72

DATE PUBLISHED ---- 70

SUBJECT AREAS-BIGLOGICAL AND MEDICAL SCIENCES

TGPIC TAGS--ATTEROSCLEROSIS, RABBIT, MITOCHGNDRION, ENZYME ACTIVITY

CONTROL MARKING-NO RESTRICTIONS

DECUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0212

STEP NU--UR/0251/70/057/002/0469/0472

CIRC ACCESSION NO--APC135708

UNCLASSIFIED

	UNCLASSIFIED	PROCESSING DATE-110EC70	
CIRC ACCESSION NOAPO135708 ABSTRACT/EXTRACT(U) GP-0-	ADSTUACT IN RABBITS	S THE HIGHEST ATPASE	
ACTIVITY IS IN THE MITUCHON	NDRIA OF CARDIAC MUSCL	LE. ON COMPARING VARIOUS	
TONS IK. NA. MG. CAL. CNLY	MG ACTS AS AN ACTIVAT	TOR OF ATPASE IN HEART.	
BRAIN, AND LIVER. IN ATHER	ROSCLERGTIC RABBILS) (TANT FRACTION.	
FACILITY: TBILIS. GOS. MED	D. INST., TBILISI, US:	SR.	
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I TONG	LASSIFIED		d

USSR

VDC: 535.345.1

SOSSI, L. and KARD, P.

"Propagation of Light in a Thin, Nonuniform Dielectric Layer"

Tallin, <u>Izvestiya Akademii Nauk Estonskoy SSR</u>, vol 21, No 2, 1972, pp 155-161

Abstract: This paper is based on an earlier article by the same authors in the same journal (17, 1968, p 41) in which formulas were obtained for the reflection and transmission coefficients of monochromatic light normally incident on a fine, nonuniform dielectric layer; the index of refraction of the film transforms continuously to the index of refraction of the original medium at the outside boundary of the film. The purpose of the present article is two-fold: first, to reconstruct the equations of the earlier article such that their terms will have a simple physical interpretation; second, to derive simpler formulas without obscuring these physical interpretations. Simple formulas for the coefficients of reflection and transmission of light in the film are also obtained. The authors are associated with the Tartu State University.

1/1

- 64 -

USSR

UDC 542.91:547.1'118:541.69

KRESTKIN, A. P., VOLKOVA, R. I., GODOVIKOV, N. N., KABACHNIK, M. I., KARDANOV, N. A., Institute of Organoelemental Compounds of the Soviet Academy of Sciences; Institute of Evolutionary Physiology and Biochemistry imeni I. M. Sechenov of the Soviet Academy of Sciences

"Interaction of S-(β -Alkylmercaptoethyl)diphenylthiophosphinates, 0-(β -Alkylmercaptoethyl)diphenylphosphinates and Their Iodomethylates With Butyrylcholinesterase"

Moscow, Izv. An SSSR: Ser. khimicheskaya, No 3, Mar 73, pp 622-627

Abstract: The paper gives the results of research on the kinetics of inhibition of butylcholinesterase by S- β -alkylmercaptoethyl diphenylthiophosphinates, 0- β -alkylmercaptoethyl diphenylphosphinates and their methiodides. It is found that these substances have a combination type of inhibiting action which increases with the length of the alkyl radical bound to the sulfide or sulfonium sulfur atom.

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- 21 -

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

UDC 547.26'118'558.1

GODOVIKOV, N. N., KARDANOV, N. A., and KABACHNIK, M. I., Institute of Elementorganic Compounds, Academy of Sciences of the USSR

"Synthesis of 0-(β -Alkylmercaptoethyl) Diphenylphosphinates, S-(β -Alkylmercaptoethyl) Diphenylthiophosphinates and Their Methiodides"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(103), No 2, Feb 72, pp 273-276

Abstract: A number of 0-(\beta-alkylmercaptoethyl) diphenylphosphinates, S-(β -alkylmercaptoethyl diphenylthiophosphinates and the corresponding methiodides were synthesized. The 0-(8-alkylmercaptoethyl diphenylphosphinates were produced by interacting diphenylphosphinoyl chloride with 6-hydroxyethyl alkyl sulfides in the presence of triethylamine. The S-(B-alkylmercaptoethyl) diphenylthiophosphinates were synthesized by first converting β -hydroxyethyl- alkyl sulfides to β -chloroethyl alkyl sulfides by treatment with thionyl chloride. The resultant β -chloroethyl alkyl sulfides were then reacted with potassium diphenylthiophosphinate to chtain the S-(β-alkylmercaptoethyl diphenylthiophosphinates. The corresponding methiodides were synthesized by treating the resultant phosphinates with methyl iodide. The starting β-hydroxyethyl alkyl sulfides 1/2

USSR

CODOVIKOV, N. N., et al., Zhurnal Obshchey Khimii, Vol 42(103), No 2, Neb 72, pp 273-276

for the reactions were synthesized by treating thiourea in order with alkyl bromides, an aqueous solution of potassium hydroxide, and ethylene chloro-bydrin, without isolation of the intermediate products. The synthesized compounds are analogs of the physiologically active 0-ethyl S-(β -alkyl-mercaptoethyl) methylphosphonates.

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USSR

UDC 547.26'118

KARDANOV, N. A., GODOVIKOV, N. N., and KABACHNIK, M. I., Institute of Element-Organic Compounds, Academy of Sciences USSR

Synthesis of 0-W-Ethylmercaptoalkyl Diphenylphosphinates and Their Methiodides

Laningrad, Zhurnal Obshchey Khimii, Vol 41 (103), No 2, Feb 71, pp 327-330

Abstract: In an attempt to prepare compounds with cholinolytic action a series of 0-w-ethylmercaptoalkyl diphenylphosphinate methiodides (I) was synthesized by the reaction of diphenylphosphinyl chloride with W-hydroxy ethyl sulfides (II) in presence of triethylamine. The intermediate 0- ω -ethylmercaptoalkyl diphenylphosphinates were then treated with methyl iodide to give (I). Several routes were used to get the starting (II): X -hydroxypropylethyl sulfide was synthesized by addition of ethyl mercaptan to allyl alcohol in presence of benzoyl peroxide; the delta-hydroxybutyl homolog was obtained by reaction of & -chlorobutanol with sodium ethylmercaptide. To synthesize E -hydroxypentyl- and hydroxyhexyl ethyl sulfides w -bromoalkyl benzoate was allowed to react with potassium methyl-mercaptide, followed by saponification. No biological data are reported.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

UDC 542.48

DYABLO, V. V., ZASTAVNYUK V. K., KARDASEVICH, O. A., and KORNEICHEV, A. I.

"Calculation of Optimal Parameters of Thermal Distillation Equipment for Salt Water With Maximum Evaporation"

Moscow, Vodosnabzheniye i Sanitarnaya Tekhnika, No 6, 1971, pp 4-8

Abstract: The basic problem facing design of novel desalination equipment is the selection of optimal parameters assuring production of fresh water at minimal cost. A method is reported for determination of such optimal parameters for multiple stage desalination units with maximum evaporation in which the concentration of the solution is brought to about the crystallization point of various salts. To prevent accumulation of sediment on heating surfaces hydrophobic heat carrier is used. An apparatus consisting of the main heater, heat exchange chamber, evaporation chamber, condenser and a pump, and the principles of operation are described in detail. Formulas have been developed, which were solved using the ETsVM "Minsk-22" system. Optimal parameters for desalination equipment have been reported graphically.

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1/2 023

UNCLASSIFIED

PROCESSING DATE--300CT70

TITLE -- SOME PROBLEMS OF PATHOGENESIS OF JUVENILE CHLOROSIS -U-

AUTHOR-(02)-IDELSCN, L.I., KARDASH, B.YE.

COUNTRY OF INFO-USSR

SOURCE-TERAPEVTICHESKIY ARKHIV, 1970, VOL 42, NR 6, PP 22-29

DATE PUBLISHED 70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--IRON, DIETARY MINERAL DEFICIENCY, ANEMIA, PEDIATRICS, HEMOGLOBIN, BLOOD SERUM

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1916

STEP NO--UR/0504/70/042/006/0022/0029

CIRC ACCESSION NO-AP0129265

UNCLASSIFIED

PROCESSING DATE--300CT70

2/2 023 CIRC ACCESSION NO-AP0129265

ABSTRACT/EXTRACT——(U) GP—O— ABSTRACI. TO FIND OUT THE ROLE OF CONGENITAL IRON DEFICIENCY IN THE DEVELOPMENT OF JUVENILE CHLOROSIN THE AUTHORS

EXAMINED 40 MOTHERS WHO HAD HYPOFERROUS ANENIA AND THEIR HEALTHY

CHILDREN (54 PERSONS). AS WELL AS 47 CHILDREN WITH HYPOFERROUS ANENIA

AND THEIR HEALTHY MOTHERS (36 PERSONS). IT WAS ESTABLISHED THAT IN ONE

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AND THEIR HEALTHY MOTHERS (36 PERSONS). IT WAS ESTABLISHED THAT IN ONE FOURTH OF HEALTHY PERSONS THE HOMOGLOBIN CONTENT WAS DECREASED. IN ONE THIRD HEALTHY CHILDREN OF ANEMIC MOTHERS AND ONE FIFTH HEALTHY MOTHERS OF ANEMIC CHILDREN THE IRON CONTENT IN THE BLOOD SERUM APPEARED TO BE DECREASED. THE DIFFERENCE IN THE MEAN IRON CONTENT IN THE HEALTHY GROUPS WAS THE SAME OR SIGNIFICANTLY LOWER. IN NORMAL HEMOGLOBIN CONTENT AND THE IRON LEVEL IN THE SERUM A DROP IN IRON RESERVES WAS REVEALED IN SOME HEALTHY INDIVIDUALS BY MEANS OF A DESFERAL TEST. POSSIBILITIES OF DEVELOPMENT OF HYPOFERROUS ANEMIA AT THE AGE OF 13-15 YEARS IN GIRLS BORN WITH IRON DEFICIENCY ARE DISCUSSED. FACILITY:

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

UESR

UDC 616.9-036.21]:681.3(476)

KARDASH, I. B., KLIMENKO, Ye. P., DROSDOVA-TIKHOMIROVA, A. A., POLIVODA, Z. M., RUBANOVA, F. G., IEPESHINSKAYA, I. V., RYTIK, P. G., and KNYSH, I. N., Ministry of Health Belorussian SSR, Central Institute of Epidemiology of the Ministry of Health USSR, Belorussian Institute of Epidemiology and Microbiology, and Belorussian Republic Sanitary Epidemiological Station

"Experience Gained in the Belorussian SSR During Introduction of a New Epidemiological Investigation Card Adapted for Processing on IBM Computer Minsk-22"

Moscow, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 12, 1972, pp 124-128

Abstract: A new IBM card with a detachable statistical stub, developed for epidemiological investigations at the Central Institute of Epidemiology, was tested in 1968-1970 in a feasibility study conducted throughout the Belorussian Republic. The project was a success not only because the IBM card is useful and convenient but also because the personnel at district and municipal epidemiological stations had received through advance training in how to fill in the cards and code the stubs. A control staff routinely examined the cards and corrected errors detected in a total of 3.1% of the stubs. Procedural improvements were introduced throughout the 3 year period as dictated by expediency. After each quarter-year, the stubs were checked at the local

USSR

KARDASH, I. B., et al., Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 12, 1972, pp 124-128

stations and submitted to the municipal or oblast stations where they were recorded and checked again. Next, they were sent to the Belorrusian Institute of Epidemiology and Microbiology for the third check, and from there to the Computer Center of Belorussia's Central Statistical Administration where the data were transferred on perforated tapes and processed on the computer. The method yielded statistical charts with more accurate and detailed information of Health USSR and, in 1970, it was introduced on a permanent basis in epidemi-

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027 1/2 UNCLASSIFIED PROCESSING DATE--160CT70 TITLE-CONCERNING THE DIFFERENTIAL DIAGNOSIS OF PROGRESSIVE

LEUKGENCEPHALITIS AND GLIOMA OF THE BRAIN -U-AUTHOR-(05)-LEUNOVICH, A.L., SKLYUT, I.A., KARDASH, I.I., KASTRITSKAYA,

Z.M. KRASILNIKOVA, N.YA. COUNTRY OF INFO--USSR

SOURCE--ZHURNAL NEVROPATOLOGII I PSIKHIATRII IMENI S. S. KORSAKOVA, 1970, VOL 70, NR 5, PP 673-679 DATE PUBLISHED ---- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS -- TUMOR, BRAIN, LESION, DIAGNOSTIC MEDICINE, ELECTROENCEPHALOGRAPHY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/0232

STEP NO--UR/0246/70/070/005/0673/0679

CIRC ACCESSION NO--APOI17484

UNCLASSIFIED

2/2 027 UNCLASSIFIED CIRC ACCESSION NO--APO117484 PROCESSING DATE--160CT70 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE AUTHORS CONVENED A CLINICO LABORATORIAL ANALYSIS OF 44 CASE HISTORIES OF PATIENTS WITH PROGRESSIVE LEUKDENCEPHALITIS AND NEUROECTODERMAL BRAIN TUMORS. SPECIAL ATTENTION IS BEING GIVEN TO PSEUDOTUMOROUS SYMPTOMS IN DIFFERENT FORMS OF PROGRESSIVE LEUKOENCEPHALITIS (SCHILDERS, SCHOLZ, VAN BOGARTS DISEASE). FOR DIFFERENTIAL PURPOSES THE AUTHORS UTILIZED GTONEUROLOGICAL AND X RAY CONTRAST METHODS, AS WELL AS EEG DATA. THE PEG OF PATIENTS WITH PROGRESSIVE LEUKOENCEPHALITIS DISPLAYED AN OPEN INTRAHYDROCEPHALIA WITHOUT A DISPLACEMENT OF THE VENTRICULAR SYSTEM. THE EEG CHANGES WERE IN THE FORM OF A DIFFUSE DISORGANIZATION OF THE RHYTHMS WITH A LOW AMPLITUDE ACTIVITY OR HIGH VOLTAGE PAROXYSMS OF ACUTE AND SLOW WAVES. THE OTONEUROLOGICAL CLINICAL PICTURE IN PROGRESSIVE LEUKOENCEPHALITIS IN COMPARISON TO TUMORS WAS CHARACTERIZED BY MULTIPLE FOCI, SUB AND SUPRATENTORIAL SYMPTOMATOLOGY. THIS INDICATES NOT ONLY TO A LESION OF THE HEMISPHERES, BUT OF THE STEM STRUCTURES AS WELL. KAFEDRA NERVNYKH BOLEZNEY BELORUSSKOGO INSTITUTA SOVERSHENSTVOVANIYA VRACHEY AND N-I INSTITUT NERVOLOGII, NEYROKHIRURGII I FIZIDTERAPII,

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE-300CT70
TITLE-CHARGE TRANSFER COMPLEXES AND CHEMICAL REACTIONS BETWEEN PRIMARY
AROMATIC AMINES AND AROMATIC CARBOXYLIC ACID DERIVATIVES IN THE SOLID
AUTHOR-(04)-KARDASH, I.E., GLUKHOYEDOV, N.P., PRAVEDNIKOV, A.N., MEDVEDEV,
S.S.

COUNTRY OF INFO-USSR

SOURCE-DOKL. AKAD. NAUK SSSR 1970, 191021, 391-4 (PHYS CHEM)

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS--IR SPECTRUM, UV SPECTRUM, PRIMARY AROMATIC AMINE, AROMATIC CARBOXYLIC ACID, LOW TEMPERATURE EFFECT, CHLORINATED ORGANIC COMPOUND, PHTHALIC ANHYDRIDE, MALEIC ANHYDRIDE, COMPLEX COMPOUND

CONTROL MARKING-NO RESTRICTIONS

DGCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME-2000/0699

STEP NO-UR/0020/70/191/002/0391/0394

CIRC ACCESSION NO--AT0124371

UNCLASSIFIED

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PROCESSING DATE--300CT70 UNCLASSIFIED 2/2 028 CIRC ACCESSION NO-AT0124371 ABSTRACT. UV AND IR SPECTRA WERE REPORTED ABSTRACT/EXTRACT--(U) GP-0-FOR SOXUBLINED SYSTEMS OF: CHLORANIL, TEREPTHTALOYL CHLORIDE, ISOPHTHALGYL CHLORIDE, PHTHALIC ANHYDRIDE AND MALEIC ANHYDRIDE AWITH PRIMARY AND TERTIARY AMINES: P.C SUB6 H SUB4, (NH SUB2) SUB2, BENZIDINE, P.DIAMINODURENE, M.C SUB6 H SUB4 (NH SUB2) SUB2 AND (P.ME SUB2 NC SUB6 H SUB4) SUB2 TAKEN IN PAIRS. SUCH COSUBLIMATION OF AROMATIC AMINES AND ACID ANHYDRIDES OR CHLORIDES ONTO A SURFACE COOLED WITH LIQ. N RESULTED IN COMPLEX FORMATION AND TRUE CHEM. REACTIONS AT SIMILAR TO 120DEGREESK. I.E. SOMEWHATE ABOVE THAT OF LIQ. N AT WHICH NO TRUE REACTIONS WERE OBSERVED. EVIDENTLY AT THE SLIGHTLY HIGHER TEMP. IT BECOMES POSSIBLE TO HAVE ROTATION OF INDIVIOUAL MOL. GROUPS OR SOME MOBILITY OF MOLECULES PER SE. THE CHARGE TRANSFER COMPLEX FORMATION WAS CHARACTERIZED BY BAND THE ELECTRONIC SPECTRA OF THE SHIFTS, WHICH WERE TABULATED. COSUBLIMATES AT 77DEGREESK REMAINED SUBSTANTIALLY UNCHANGED WITH TIME, BUT LSIGHT WARMING RESULTED IN THE DISAPPEARANCE OF ABSORPTION IN THE VISIBLE SPECTRUM AND DEVELOPMENT OF CHEM. REACTIONS WHICH COULD BE FOLLOWED BY IR SPECTRA, WHICH REVEALED AMIDE GROUP DEVELOPMENT. FACILITY: FIZ. KHIM. INST. IM. KARPOVA, MOSCOW, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

UDC 551.521.3:551.463.5:535.36

ZEGE, E. P. and KARDASH, L. I.

"Light Field in the Depth Mode With Polarization Taken Into Account"

Minsk, Zhurnal Prikladnoy Spektroskopii, vol 17, No 5, 1972, pp 861-871

Abstract: The problem with which this paper is concerned is that of finding the light field in the depth of an optically thick or semi-infinite layer of an absorbing and scattering medium. The paper examines the depth mode in a medium with scattering centers of arbitrary dimensions and form. In this theoretical treatment it is assumed only that the medium is symmetrical and the particles are chaotically oriented and are uniformly distributed in the layer, an assumption that always holds true in real dispersing media such as seawater and clouds. The authors begin their analysis with the statement of a matrix which describes the linear transformation law of the Stokes vector in a single scattering. A plane, semi-infinite medium whose boundary is illuminated by an infinitely wide parallel light beam is considered; a stationary angular

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

ZEGE, E. P., et al, Zhurnal Prikladnoy Spektrosopii, vol 17, No 5, 1972, pp 861-867

distribution of the Stokes vector components, known as the depth mode, is in the depth of the scattering medium at a sufficient distance from the boundary. The matrix for the angular scattering is determined, and a system of integral equations for the Stokes parameters in the depth mode is derived. The equations are numerically solved and the light field is investigated.

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USSR

UDC: 51

KARDASH, V. A., RAPOPORT, E. O.

"Concerning an Optimum Irrigation Policy Under Conditions of Runoff Regulation"

Sb. tr. In-t mat. Sib. otd AN SSSR (Collected Works. Institute of Mathematics of the Siberian Department, Academy of Sciences of the USSR), 1972, wyp. 7(24), pp 35-44 (from RZh-Kibernetika, No 7, Jul 73, abstract No 7V583 by the authors)

Translation: A model of many years of runoff regulation for irrigation purposes is considered. The model is based on an economic criterion of optimality -- maximum return on capital investments by pure income. The key design parameters of the system comprised of the irrigation complex and the irrigated land are selected with regard to the most important technical requirements for matching them. In this regard, operation of the system is treated as a random process related to the dynamics of river runoff. For a goal function of special form, simple formulas are derived which define the policy of accumulating and utilizing water each year. A method is proposed for finding optimum strategic parameters of irrigation (reservoir capacity and irrigation area). 1/1:

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

UDC: 51

KARDASH. V. A. and RAPOPORT, E. O.

"Optimal Irrigation Policy Under Conditions of Runoff Control"

Sb. tr. In-t Mat. Sib. otd. AN SSSR (Collection of Works, Institute of Mathematics, Siberian Division, Academy of Sciences, USSR) No 7(24), 1972, pp 35-44 (from RZh--Matematika, No 7, 1973, Abstract No 7V583)

Translation: A model of long-term runoff control for irrigation purposes is considered. It is based on the economic optimality criterion that the maximum part of the return on the capital investment be pure profit. Key design parameters of the "irrigation complex-irrigated agriculture" system are selected with the most important technical demands on their correlation taken into account. In this connection, the operation of the system is considered as a random process tied to the dynamics of river runoff. Simple formulas permitting the determination of a policy of the storage and use of water each year are obtained for a goal function of special form. A method is proposed for finding the optimal strategic parameters of irrigation (the capacity of the water reservoir and the irrigation area). Authors' abstract.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

UDC 621.396.677:523.164

KARDASHEV, N. S., PARIYSKIY, YU. N., SOKOLOV, A. G.

"Cosmic Radioastronomy"

Uspekhn. fiz. nauk (Progress in the Physical Sciences), 1971, Vol 104, No 2, pp 328-331 (from RZh-Radiotekhnika, No 10, Oct 71, Abstract No 10B14)

Translation: The prospects of research in the ordinary radioastronomy field were investigated without touching on the regions where the Earth's atmosphere and ionosphere are completely opaque. The restrictions preventing the creation of antennas on the Earth with reflector diameters >100 meters — the presence of gravitational force leading to deformation of the structural elements — are analyzed. The possibility of constructing antenna elements in space with dimensions as large as one might like is noted since the basic forces acting on a space antenna are the light pressure, the tidal force of the Earth and the centrifugal force on rotation. These forces are several orders less than the gravitational force. It is noted that in outer space it is possible to create continuous parabolic reflectors with dimensions on the order of 1 km and more. The advantage of space telescopes is also a significant reduction in the interference level. An important area of space radioastronomy is further improvement of the angular resolution by taking one of the

USSR

KARDASHEV, N. S., et al., Uspekhn. fiz. nauk, 1971, Vol 104, No 2, pp 328-331

interferometer antennas a large distance beyond the limits of the Earth. For very large interferometer bases, it is also possible to construct a three-dimensional image of the sources, determine the trigonometric distances to the farthest sources and study the curvature of space. It is noted that a significant obstacle in creating space interferometers can be the effect of radio wave scattering in the interstellar medium. There are 2 illustrations and a 3-entry bibliography.

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PROCESSING DATE--11DECTO

TITLE--PULSARS AND NON THERMAL RADIO SOURCES -U-AUTHUR--KARDASHEV. N.S.

CEUATRY OF INFO--USSR

0.26

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SOURCE--ASTRONCMICHESKII ZHURNAL, VOL. 47, NO. 3, 1970, P. 405-478

UNCLASSIFIED

DATE PUBLISHED ---- 70

SUBJECT AREAS -- ASTRONOMY, ASTROPHYSICS

TOPIC TAGS-PULSAR, COSMIC RADIO SOURCE, RADIO EMISSION, COSMIC RAY,

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED

PROXY FICHE NO----FC70/605013/002 STEP NO--UR/0033/70/047/003/0465/0478

GIRC ACCESSION NO--APO140389

UNCLASSIFIED.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

2/2 UNCLASSIFIED PROCESSING DATE-110F070 CIRC ACCESSION NO--APO140389 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. PHYSICAL PROCESSES IN GALACTIC AND EXTRA GALACTIC SOURCES OF NON THERMAL RADIDEMISSION ARE CONSIDERED ASSUMING THAT PULSARS ARE PRINCIPAL SOURCES OF MAGNETIC FIELD AND COSMIC RAYS: A SYSTEM OF EQUATIONS WAS DERIVED DESCRIBING ENVELOPES OF SUPERNOVAE AFTER AN EXPLOSION AND ON LATER STAGES. A STRUCTURE OF MAGNETIC FIELD IN SN ENVELOPES AND PULSARS IS INVESTIGATED. A MECHANISM OF PULSED RADIO EMISSION OF PULSARS AS A NONLINEAR TRANSFORMATION OF LOW FREQUENCY RADIATION WITH A PERIOD EQUAL TO PERIOD OF PULSAR ROTATION IS DISCUSSED. POSSIBILITIES OF EXPERIMENTAL VERIFICATION OF THIS MECHANISM ARE INDICATED. RADIO WAVE PROPAGATION IN PULSAR MAGNETOSPHERE IS DISCUSSED AS WELL AS PHENEMENA OF ANOMALOUS FARADAY ROTATION OF THE POLARIZATION PLANE AND TIME DELAY OF SIGNALS. PUSSIBILITY OF OBSERVING PULSARS AFTER SN EXPLOSIONS IN THE NEARBY GALAXIES IS DISCUSSED. A METHOD OF DETERMINATION OF THE NUMBER OF PULSARS IS SUGGESTED ASSUMING THAT EXTRA GALACTIC RADIO SOURCES OF SYNCHROTRON EMISSION ARE CLUSTERS OF ODJECTS SIMILAR TO THE CRAB NEBULA. FACILITY: | MUSKUVSKII GUSUDARSTVENNYI UNIVERSITET; AKADEMIIA NAUK SSSR, INSTITUT KOSMICHESKIKH ISSLECCVANII, HOSCOW, USSR.

UNCLASS IF I LO

KARDASHEV,

02 Jun 71

UDC: 616-07-71:681.31

Making a diagnosis is a typical process of information processing that can arbitrarily be divided into three parter; 1) gathering information characteristic parterils condition; 2) processing and evaluating [t; 3] making a decision on the basis of the information obtained (N.M. Anosovy M.L. Bykhovskiy et al.).

practice, it is impossible to take into compideration all of pathological changes occurring in the organism as the robult of some appellic disease, brinding in the organism as the robult of some appellic disease, which are encountered the acce often and which have the greatest diamostic value, it possible, one should do without darm obtained as a result of transactic, paintil, and leagiby diagnostic procedures. The accuracy of the displaces had setermined by the fullness and this inference of information about the patient's condition. In other words, of specific pathological shades made about the presence as well as severity of specific pathological changes (symptoms) in the petient's organism at the time time of the examination and at the entier stages of development of the disease. The quantity of such symptoms can be arbitrarily gives, since, in the chief the chief processes, and the chief processes of the chief processes.

Historically, in the development of medical diagnostics, one can distinguish three qualitatively different stages.

At the first stags, there is a direct link between the doctor and the patient, they form one information dipole. The doctor's success at this stage is determined entirely by the conditioning of this among vorgans which are capable to fitting the presence of little noticeable pathological substantial flows the tage, the diagnostic process suffers from a number of which mile lieuws the treat inportant of Which mere is the data about the pation's condition are superficiel, subjective, and difficult to verify; b) the soctor's subcatter and improvement of his knowledge constitute a

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

UBSR

VDC 536.248.2

BARANENKO, V. I., KARDASHEV, YU. D.

"Investigation of Heat Transfer During Boiling by the Optical Method"

Tr. Nikolayevskogo korablestroit. in-ta (Works of the Nikolayev Shipbuilding Institute), 1970, Vol 33, pp 31-38 (from RZh-Metrologiya i Izmeritel'naya Tekhnika, No 8, Aug 70, Abstract No 8.32.666)

Translation: Description is given of an experimental apparatus for the investigation of the mechanism of heat transfer during boiling in a large space with the help of a diffraction shadow interferometer. Results are presented of the calibration tests obtained during boiling of underheated water under the conditions of atmospheric pressure and a description is given of the method of computation of interference patterns. 4 111., 5 bibl. entries.

Resume

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UDC 519.3

KARDASHOV, V. R., Chair of Computer Mathematics

"Conditions for the Differentiability of Integral Functionals"

Moscow, Vestnik Moskovskogo Universiteta, No. 6, Nov/Dec 70, pp 23-30

Abstract: Conditions for the existence of the Gato differential and for differentiability, in the sense of Gato and Freshet, of the integral functional $f(x) = \int_{C} F(t, x(t)) dt$ defined in L_p spaces, $1 \le p \le \infty$, are found. The conditions for

Freshet differentiability are analogous to the corresponding conditions for Nemytskiy and Hammerstein operators, except that the conditions for Freshet differentiability of f(x) found here do not assume the continuity of the derivative of the function F(t,x) with respect to x. The theorems proved show that the differential properties of f(x) are fully determined by the differential properties of the function F(t,x) with respect to x and by conditions on the growth of the derivatives. It is noted that the theorems can be applied to a functional of two variables $f(x,y) = \int F(t,x(t),y(t))dt$ defined by the direct product of the spaces L and C

 L_{p_2} , $1 \leq p_1$, $p_2 \leq \infty$.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

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KARDASHOV, V. R. (Chair of Computer Mathematics)

"Conditions for Differentiability of a Multivariate Functional of the Calculus of Variations"

Moscow, Vestnik Moskovskogo Universiteta: Matematika, Mekhanika; January-February, 1971; pp 23-30

ABSTRACT:

The paper presents conditions under which the functional $f(x) = \int F(t, x(t)) dt$ defined on spaces $\mathcal{P}_p^{\perp}(G)$, $1 \le p \le \infty$ has Gato's differential (directional derivative) and is differentiable after Gato and Frechet, as well as conditions which ensure the continuity and boundedness of the gradient of f(x).

the continuity and boundedness of the gradient of f(x).

The gradient of f(x) is written on a set $W_{\rho}^{1}[g]$ of functions satisfying the condition $x(t)|_{\Gamma} = g(t)|_{\Gamma}$, where $g(t) \in W_{\rho}^{1}(G)$ is a given function, Γ is the boundary of the domain G.

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UNCLASSIFIED PROCESSING DATE--115EP70

FITLE--COMPOSITION OF PEROXIDES AND ACIDS OF FURFURAL CONDENSATES -U-

AUTHOR--KARDAYLOVA, K.M., ABRAMYANTS, S.V., KULNEVICH, V.G.

COUNTRY OF INFO--USSR

SOURCE--GIDROLIZ. LESOKHIM. PROM. 1970, 23(1) 8-9

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--FURFURAL, PERDXIDE, CARBOXYLIC ACID, FORMIC ACID, MALEIC ACID, SUCCINIC ACID, PROCESSED PLANT PRODUCT, POLAROGRAPHY, CHROMATOGRAPHY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/0145

STEP NO--UR/0328/70/023/001/0003/0009

CIRC ACCESSION NO--APO106808

UNCLASSIFIED

2/3 015 UNCLASSIFIED PROCESSING DATE--11SEP70 CIRC ACCESSION NO--APO106808 ABSTRACT/EXTRACT--(U) GP-O-ABSTRACT. SUNFLOWER HUSKS WERE HYDROLYZED IN A PILOT PLANT APP, AND EVERY 10 MIN, SAMPLES OF THE HYDROLYZATE DISCHARGED WERE ANALYZED FOR THEIR CONTENTS OF PEROXIDES AND ACIDS, AS WELL AS OF FURFURAL. ORG. ACIDS WERE SEPD. BY COLUMN CHROMATOG. ON STLICA GEL, H SUB2 O SUB2 WAS DETD. BY CERIMETRY, PERACIDS BY IODOMETRY, AND SOME PEROXY COMPOS. BY POLAROGRAPHY. THE MAX. FORMATION OF PEROXIDES WAS OBSO. DURING THE HEATING PERIOD; THEY WERE DISCHARGED DURING THE 1ST 10-15 MIN OF FURFURAL VAPOR EVOLUTION. AT THE END OF THE HEATING PERIOD. THERE WAS 5-9 MG PEROXIDE D-MOLE FURFURAL. THE CONCN. OF HISUB2 O SUB2 AND PERACIDS WAS THE HIGHEST AT THE BEGINNING AND AT THE END: OF THE COOK. PYROMUCIC, FUMARIC, ACETIC, BETA FORMYLACRYLIC, FORMIC, MADEIC, AND SUCCINIC ACIDS WERE FOUND. A COMPARISON OF THE DATA WITH THOSE OBTAINED IN LAB. AUTOXION. OF FURFURAL SHOWED THAT FURFURAL REACTS WITH O IN THE HYDROLYZER. EXCEPT FOR HOAC, WHICH ORIGINATES FROM HYDROLYSIS OF PLANT TISSUES, ALL ACIDS ARE THE PRODUCTS OF FURFURAL AUTOXION. BY A CHAIN REACTION IN THE PRESENCE OF ATM. O. THE PEROXIDES CANNOT SERVE AS AN INDEX OF OXIDIZABILITY BECAUSE OF THEIR LABILE NATURE. A MORE RELIABLE INDEX WOULD BE THE CONCN. OF ACIDS, BUT HERE ALSO THEIR CONVERSION AT HIGH TEMP. MUST BE TAKEN INTO CONSIDERATION. THE MOST STABLE OF THE ACIDS IS HOO SUB2 H AND ITS YIELD CAN SERVE AS AN INDEX OF FURFURAL LOSSES BY OXIDN. IN THE HYDROLYZER. ACCORDING TO THIS INDEX. THE AMT. OF FURFURAL FORMED IN THE HYDROLYZER IS SIMILAR TO 130PERCENT IF THE ACTUAL YIELD IS TAKEN: AS 100PERCENT. FURTHER LOSSES OCCUR THROUGH DEGRADATION OF PENTOSES WITHOUT FURFURAL FORMATION.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

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CIRC ACCESSION NO--APOLO6808

ABSTRACT/EXTRACT--THUS, THE ROLE OF MOL. O DURING HYDROLYSIS IS MORE
IMPORTANT THAN THAT GENERALLY ASSUMED, AND SPECIAL MEASURES ARE NEEDED
TO PREVENT OR AT LEAST REDUCE THE LOSSES. REPLACEMENT OF 0 BY CO SUB2
CONDITIONS, REDN. OF OXION. NOT ONLY INCREASES THE FURFURAL BY 12-15PERCENT. UNDER INDUSTRIAL
ALSO IMPROVES THE QUALITY OF THE PRODUCTS FROM PLANT MATERIAL
HYDROLYZATES.

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UDC: 621.771.23.011

KARDONOV, B. A., SHTIRTS, V. V., BYKOVSKIY, G. S., KOROBOV, A. G.

"Rolling of Sheets of Highly Corrosion-Resistant Alloy"

Moscow, Metallurg, No 12, Dec 73, pp 25-27.

Abstract: EP-567 alloy has been recommended for chemical equipment which must be used in corrosive media such as acetic acid. The alloy, containing not over 0.03% C, not over 0.015% Si, not over 1.0% Mn, 14.5-16.5% Cr, 15-17% Mo, 3-4.5% W, not over 1.5% Fe, remainder Ni, has satisfactory ductility in the 950-1220° C temperature range. This alloy has high tensile strength and deformation resistance, resulting from the high content of molybdenum and tungsten. Considering the peculiarities of the alloy, the Central Scientific Research Institute for Ferrous Metallurgy and the Ashinskiy Metallurgical Plant have developed and introduced a technology for production of sheets on a reversing quarto 1500 mill. This article studies the strength and ductility characteristics of the alloy in the 900-1250° C temperature interval. The technology developed can produce hot-rolled strips measuring 1000 by 2000 mm (4-10 mm thick). Sheets 1.5 to 2 mm thick with the same dimensions are produced on a quarto 1400 mill by cold rolling. The rolling forces do not exceed

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Kardonov, B. A., Shtirts, V. V., Bykovskiy, G. S., Korobov, A. G., Moscow, Metallurg, No 12, Dec 73, pp 25-27.

the permissible forces for these mills. The corrosion resistance and mechanical properties of the finished sheets satisfy the requirements of consumers. The technological instruction calls for multipass rolling (60-55) + 10 + 6 + 4 mm; metal heated to $1180-1200^{\circ}$ C; heating time of metal calculated at 2 min/mm thickness before rolling; temperature at mill exit at least 950° C; compression per pass not over 5 mm.

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1/2 021

UNCLASSIFIED

PROCESSING DATE-- 20NOY70

TITLE--CPTICAL FOURIER SYNTHESIS -U-

AUTHOR-(02)-ZOLOTUKHIN, A.A., KARDONSKIY, V.M.

CCUNTRY OF INFC--USSR

SOURCE-KRISTALLOGRAFIYA 1970, 15(1), 160-1

DATE PUBLISHED 70

SUBJECT AREAS-PHYSICS

TOPIC TAGS-X RAY DIFFRACTION, CRYSTAL STRUCTURE, OPTIC PROPERTY

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1995/0918

STEP NO--UR/0070/70/015/001/0160/0161

CIRC ACCESSION NO--APOIL6428

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

2/2 021 UNCLASSIFIED PROCESSING DATE-- 20NOV70 CIRC ACCESSION NO--APOII6428 ABSTRACT/EXTRACT-- (U) GP-0-ABSTRACT. AN EXPT. DEMONSTRATING THE POSSIBILITY OF OPTICAL FOURIER SYNTHESIS OF CRYSTAL STRUCTURES IS DESCRIBED. MARCASITE, FES SUB2, WAS CHOSEN AS: AN EXAMPLE. PERFORATED OPACUE SCREENS HERE USED TO SIMULATE X RAY DIFFRACTION PATTERNS OF MARCASITE, THE CIRCULAR GRIFICES BEING PLACED AT POSITIONS CORRESPONDING TO THE HKOO POINTS IN THE RECIPROGAL LATTICE OF MARCASIVE AND HAVING AREAS PROPORTIONAL TO THE CORRESPONDING STRUCTURAL AMPLITUDES.

1/2 026 UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--TRANSMITTANCE AT THE NAUGARZAN ASTRONOMICAL STATION -U-

AUTHOR-(02)-KARDOPOLOV, V.I., SLUTSKIY, V.YE.

COUNTRY OF INFO--USSR

SOURCE--AKADEMIIA NAUK UZBEKSKOI SSR, IZVESTIIA, SERIIA FIZIKO MATEMATICHESKIKH NAUK, VOL. 14, NO. 1, 1970, P. 62-64

DATE PUBLISHED-----70

SUBJECT AREAS--ASTRONOMY, ASTROPHYSICS

TOPIC TAGS--ASTRONOMIC OBSERVATORY, SPECTRAL DISTRIBUTION, MARS PLANET, LIGHT TRANSMISSION, PARTICLE SCATTER/(U)NAUGARZAN ASTRONOMICAL STATION

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--2000/1254

STEP NO--UR/0165/70/014/001/0062/0064

CIRC ACCESSION NO--APO124905

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"APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9 a sa a sa a la completa de sa a comencia de comencia de comencia de la comencia de la comencia de la comencia d

2/2 UNCLASSIFIED PROCESSING DATE--27NOVTO CIRC ACCESSION NO--APO124905 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. DETERMINATION OF THE SPECTRAL TRANSMITTANCE COEFFICIENTS AT NAUGARZAN BY BOUGUER'S METHOD FROM THE SPECTRA OF MARS AND ALPHA BOO PHOTOGRAPHED AT ZENITH DISTANCES RANGING FROM 35 TO 85DEGREES. THE EQUIPMENT USED IN THE EXPERIMENTS IS DESCRIBED. THE PRESENCE OF LARGE PARTICLES IS DETECTED, AND IT IS SHOWN THAT NEUTRAL SCATTERING ON THE LARGE PARTICLES IS FOUR TO FIVE TIMES THE SELECTIVE SCATTERING ON SMALL PARTICLES. THE CURVE OF THE MEAN TRANSMITTANCE COEFFICIENT VS WAVELENGTH FOR NAUGARZAN IS SIMILAR TO THAT FOR MOUNT WHITNEY. FACILITY: AKADEMIIA NAUK UZBEKSKOI SSR, ASTRONOMICHESKII INSTITUT, TASHKENT, UZBEK SSR.

UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--NORMS OF THE ENZYMIC ACTIVITY OF LEUKOCYTES -U-

AUTHOR-105)-MIKHEYEVA, A.I., KARDOS, V.S., KLIONSKAYA, A.G., MAGID, E.M.,

COUNTRY OF INFO--USSR

SOURCE--LAB. DELO 1970, (1), 5-7

DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--LEUKOCYTE, ENZYME ACTIVITY, LYMPHOCYTE, ESTERASE, PHUSPHATASE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0212

STEP NO--UR/9099/70/000/001/0005/0007

CIRC ACCESSION NO--APOl19208

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

UNCLASSIFIED PROCESSING DATE--300CT70 2/2 CIRC ACCESSION NO--APOL19208 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. ENZYMIC ACTIVITIES IN LEUKOCYTES OF 50 HEALTHY MEN WERE DETO. BY THE KAPLOW METHOD (1955). ALK. PHOSPHATASE IN NEUTROPHILS WAS 5-67 UNITS, MEAN 27.5 UNITS. ACCORDING TO: THE ACTIVITY OF ACID PHOSPHATASE (I) LEUKOCYTES WERE CLASSED INTO 4 GROUPS. (1) NO TIVITY F CYOPLASMA DI NOT CONT IN GRANULES CYTO LA ZA W TH ZS THM O' EQ L T 5 RA LES [] 6-20. (4) LARGER THAN 20 GRANULES. IN NEUTROPHILS, THE 1ST 2 GROUPS WERE MOST COMMON (MEAN 38.6 UNITS); 8-62PERCENT OF THE NEUTROPHILS CONTAINED I. LYMPHOCYTES CONTAINED 6-60 UNITS (MEAN: 26.8 UNITS) [Nonspecific ESTERASE (II) ALSO CLASSED LEUKOCYTES INTO THE SAME GROUPS AS I AND IN NEUTROPHILS IT ACTVITY WAS T HATOF LEUKO Y GROUPS 3; 20-90PE CENT OF THE LYMPHOCYTES XONTAIN D. TIVE II (1 -13 UN TS, MEAN 72.4 UNITS). FACILITY: GL. KLIN. VOEN. GOS. IM. BURDENKO, MOSCOW, USSR.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

Automotive

USSR

UDC 621.842.2-585.862-183.2:620.178.311.4

RODZEVICH, N. V., Candidate of Technical Sciences, AFONSKIY, V. P., Engineer, KARDOVSKIY, V. S., Engineer, ZHUK, Ye. I., Candidate of Technical Sciences, KONONENKO, P. D., Engineer and CHAPALA, N. P., Engineer

"Strength of Heavy Drive Shafts"

Moscow, Vestnik Mashinostroyeniya, No 1, Jan 71, pages 28-30

Abstract: This article presents the results of a study of the strength of the drive shafts used in the power trains of heavy trucks and other transport equipment. The two types studied were designed for transmission of torques of 300 and 600 kgm. The weakest links in the heavy drive shafts when tested without rocking in bearings were the forks and X-members of the universal joints. Cracks arose in the drive shafts in areas where tensile stresses were concentrated (apertures, notches, welded joints, spline ends, separation of induction-annealed layers, etc.). In order to achieve equal strength of elements and increase the load-bearing capacity of heavy drive shafts, it is recommended that continuous splined forks of type 38KhMYuA steel with

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

RODZEVICH, N. V., et al, <u>Vestnik Mashinostroyeniya</u>, No 1, Jan 71, pgs 28-30

nitrided surfaces be used. The notches designed to retain the end caps of tubular splined forks should be eliminated. The X-members should be strengthened by moving the oil aperture to the end of the member and increasing the radius of the fillet in the area of transition between the cylindrical portion of the pin and the central portion of the X-member.

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USSR

KARDYROV, G. K., SAFAROV, M. I.

"Activity of the Enzyme Glutamate Decarboxylase in Some Structures of the Brain and Spinal Cord After the Action of Inhaled Benzene on the Organism"

Izv. Akad. Nauk AzSSR, Ser. biol. n. (Bulletin of Azherbijian SSR Academy of Sciences, Biological Sciences Series), 1973, No 2, pp 88-92) (from Referativnyy Zhurnal, 30F, Biologicheskaya Khimiya, No 18, 25 September 1973, abstract No 18F1736)

Translation: Under extreme conditions of the state of the organism due to the action of a high concentration of inhaled benzene, the activity of glutamate decarboxylase is increased in the brain but insignificantly so in the spinal cord.

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KARDZHIYEV, N.

"Exact Equations of the Force Method for Tissue Shells"

Teor. i pril. mekh. J Nats. kongres, Varna, 1969. Kn. 2 (Theory and Application of Mechanics. I. National Congress, Varna, 1969. Book 2), Sofiya, 1971, pp 391-397 (from RZh-Mekhanika, No 3, Mar 73, Abstract No 3V155)

Translation: The equilibrium equations of a grid shell are written in vector form. By identically satisfying the equilibrium equations of an element, the author reduces the problem to a single nonlinear consistency equation relative to the vector stress function. The possibilities of a variational formulation of the problem are discussed. 6 ref. V. L. Biderman.

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- 89 -

1/2 008 UNCLASSIFIED TITLE--SYNTHESIS OF 4, PHENOXYBIPHENYL -U-

PROCESSING DATE--13NOV70

AUTHOR-(04)-BARONI, YE.YE., KAREGISHVILI, L.I., KOVYRZINA, K.A.,

COUNTRY OF INFO-USSR

SOURCE-ZH. PRIKL. KHIM. (LENINGRAD) 1970, 43(3), 719-20

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS-CHEMICAL SYNTHESIS, BENZENE DERIVATIVE, DXYGEN COMPOUND, POLYNUCLEAR HYDROCARBON

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—1992/0341

STEP NO--UR/0080/70/043/003/0719/0720

CIRC ACCESSION NO--APO111535

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

2/2 008 UNCLASSIFIED PROCESSING DATE--13NOV70 CIRC ACCESSION NO-APO111535 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. ADDING 4.8 ML HNO SUB3 (D. 1.4) OVER 70 MIN TO A MIXT. OF 38.5 G PH SUB2, 100 ML HOAC, 31.8 G IODINE, AND 27.5 ML H SUB2 SO SUB4 (D. 1.84) AT 34-6DEGREES GAVE 54PERCENT 4, PHC SUB6 H SUB4 I (I), M. 112DEGREES (ETOH). REACTION OF 70 G I WITH KOPH TERON 45.5 G PHOH AND 15.4 G KOH) 6 HR IN THE PRESENCE OF 1.5 G POWD. CU AT 270-90DEGREES GAVE 97PERCENT 4, PHOC SUB6 H SU84 PH (II), B SU82 160DEGREES, M. 68-9DEGREES. COM. FEASIBLE PREPN. OF II FROM PHBR AND 4. PHC SUB6. H SUB4 OH (III) WAS STUDIED WITH RESPECT TO REACTANT RATIO AND REACTION TIME AND TEMP. II YIELDS WERE MAX. (BP.2PERCENT) WHEN 25 G III, 12 G KOH, 0.75 G CU, AND 40 ML PHBR WAS HEATED FIRST AT 180DEGREES UNDER A DEPHLEGMATOR 2.5 HR WITH DISTN. OF H SUB2 O FORMED IN THE REACTION AND THEN 1.5 HR AT 300DEGREES; THE MIXT., COOLED TO SODEGREES, WAS TREATED WITH 50 ML AQ. 20PERCENT KOH, AND THE FILTERED, WASHED. DRIED PRODUCT WAS VACUUM DISTD. FACILITY: SUKHUM. FIZ.-TEKH. INST., SUKHUMI, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

UNCLASSIFIED

PROCESSING DATE--160CT70

TITLE-THE NAME OF A MILITARY LEADER IS GIVEN TO THE ACADEMY -U-

AUTHOR -- KARELIN, A.

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COUNTRY OF INFO--USSR

SOURCE--KRASNAYA ZVEZDA, JUNE 30, 1970, P 4, COLS 3-4

DATE PUBLISHED -- 30JUN 70

SUBJECT AREAS--BEHAVIORAL AND SOCIAL SCIENCES

TOPIC TAGS-MILITARY SCHOOL, MILITARY PERSONNEL, CHEMICAL WARFARE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1993/0083

STEP NO--UR/900B/70/000/000/0004/0004

CIRC ACCESSION NO--ANOII3061

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2/2 019 UNCLASSIFIED PROCESSING DATE--160CT70 CIRC ACCESSION NO--ANOLIBO61 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE MILITARY RED BANNER ACADEMY OF CHEMICAL WARFARE HAS BEEN HONORED BY ATTACHING TO LITS NAME THE NAME OF MARSHALL S. TIMOSHENKO. AT A MEETING HELD TO CELEBRATE THIS EVENT, GENERAL LIEUTENANT OF TECHNICAL FORCES V. K. PIKALOV, COMMANDING GENERAL OF CHEMICAL WARFARE FORCES OF THE MINISTRY OF DEFENSE, COLONEL A. A. KIZIMA. CANDIDATE OF HISTORICAL SCIENCES, CAPTAIN G. D. KUDRYAVTSEV, STUDENT OF THE COMMAND SCHOOL, AND V. K. YEREMENKO, AN EMPLOYEE OF THE SOVIET ARMY, GAVE SPEECHES. UNEI ASSIFTED

USSR

KARELIN, A. A.

"The Effects of Ethionine Poisoning on the Activities of Enzymes Involved in Creatine Biosynthesis in the Rat Pancreas"

Byul. Eksperim. Biol. i Med., Vol 74, No 10, 1972, pp 39-42 (from Referativnyy Zhurnal — Biologicheskaya Khimiya, No 5, 1973, Abstract No 5F2291)

Translation: A single intraperitoneal administration of DL-ethionine (I) (1 g/kg) to male rats completely inhibits guanidoacetate methylferase (EC 2.1.1.2) 3-48 h after administration, an enzyme in the second step of creatine synthesis; the activity of glycine amidinotransferase (I; EC 2.1.4.1)— the enzyme of the first step of creatine synthesis — increases sharply 3 h after poisoning, and then gradually decreases. The increase in the activity of I after 3 h is accompanied by a 6-7 fold decrease in the pancreatic concentration of creatine. Inhibitors of protein synthesis, actinomycin and cyclohexamide, inhibit the increase in the activity of I; concomitantly, pancreatic creatine content increases.

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USSR

UDC: 669'255'295'24:620.17

KARELIN, A. G., KASHUK, V. A.

"Study of Properties of Cast Cobalt with the Addition of Titanium and Nickel"

Sb. Nauch. Tr. Tomsk. Inzh.-Stroit. In-t [Collected Scientific Works of Tomsk Institute of Construction Engineering], 1973, No 21, pp 55-67 (Translated from Referativnyy Zhurnal Metallurgiya, No 8, 1973, Abstract No 81699, by L. Petrova).

Translation: The influence of slight additions of Ti and Ni in quantities of 0.05, 0.1, 0.2, 0.35, 0.5, 0.55, 0.8, 1.0, 1.2, 1.6% on the macro- and micro-structure, microhardness and ρ of cast Co (99.98%), produced in a type LPZ-67 high frequency installation under a layer of flux or in Ar was studied. The additives were introduced in the form of Co-Me master alloys. The maximum grain size reduction was observed for 0.35 at. % Ti, while higher concentrations caused an increase in grain size. Ni decreases grain size slightly, and the curve is continuous. Ti and Ni increase microhardness and ρ of Co, Ti acting more strongly than Ni, particularly on ρ . 6 figures, 3 tables, 28 biblio. refs.

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1/2 032 UNCLASS

UNCLASSIFIED

PROCESSING DATE--300C170

TITLE-INFRARED ABSORPTION SPECTRA AND STRUCTURE OF THE CLO PRIMES.

POSITIVE CATION -U-

AUTHOR-(04)-KARELIN, A.I., NIKITINA, Z.K., KHARITONOV, YU.YA.,

RGSGLCVSKIY. V.YA.

CUUNTRY OF INFO--USSR

SOURCE--ZH. NEORG. KHIM. 1970, 15(4), 941-8

DATE PUBLISHED ----- 70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS--IN ABSORPTION, CHLORINE COMPOUND, FLUORIDE

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRANE--1999/1229

STEP NU--UR/0078/70/015/004/0941/0948

CIRC ACCESSION NO--AP0123193

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO-APOL23193
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE IR SPECTRA OF CLO SUB2 BF SUB4, CLO SUB2 SBF SUB6, AND CLO SUB2 SB SUB3 F SUB16 ARE GIVEN THE ASSIGNMENT OF MAX. IS TABULATED. THE STUDY REVEALS THAT CLO SUB2 PRIME POSITIVE HAS OCLO SIMILAR TO 119DEGREES. ANAL OF NORMAL MODES OF VIBRATION OF CLO SUB2 PRIME NEGATIVE, CLO SUB2 PRIME POSITIVE, AND CLO SUB2 IS GIVEN AND THE RESULTS ARE COMPARED WITH EXPTL. DATA ON CLO SUB3 PRIME NEGATIVE, CLO SUB4 PRIME NEGATIVE, AND CLO PRIME NEGATIVE. THE CALCO. DELTAH DEGREES OF FORMATION (FROM AT. SPECIES) OF CLO SUB2 PRIME NEGATIVE, CLO SUB2, AND CLO SUB2 PRIME POSITIVE IS \$114.5, 123, AND 167 KCAL-MOLE, RESP.

UNCLASSIFIED

1/2 017

UNCLASSIFIED

PROCESSING DATE--20NOV70

TITLE--ALUMINUM NITRATE COMPLEXES -U-

AUTHOR-(04)-RESGLOVSKIY, V.YA., SHIROKOVA, G.N., KARELIN, A.T., KRIVISOV,

N.V.

CCUNTRY OF INFO--USSR

SGURCE-DOKL. AKAD. NAUK SSSR 1970, 191(3), 622-4

DATE PUBLISHED ----- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS-ALUMINUM NITRATE, ALUMINUM COMPLEX, CESTUM COMPOUND, CHEMICAL DECOMPOSITION, HEAT OF FORMATION

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME-3005/0225

STEP NO--UR/0020/70/191/003/0622/0624

CIRC ACCESSION NO--ATO132497

UNCLASSIFIED

PROCESSING DATE--20NOV70 UNCLASSIFIED 2/2 CIRC ACCESSION NO--AT0132497 ABSTRACT. ADDING A 4-8 FOLD EXCESS OF N SUB2 ABSTRACT/EXTRACT--(U) GP-0-O SUBS, CONTG. HNO SUB3 IMPURITIES, TO AN EQUINOLAR MIXT. OF CSNO SUB3 AND ALBR SUB3 AT MINUS 196DEGREES GAVE, ON WARMING UP SLOWLY AND REMOVAL OF VOLATILES IN VACUO, CS(AL(NO SUB3) SUB4). MIXING ALBR SUB3 WITH AN EXCESS OF DRY N SUB2 O SUB5 AT MOLAR RATIOS FROM 1:20 TO 1:30, REHOVING VULATILES IN VACUO AFTER 12 HR AT ODEGREES, ADDING A NEW PORTION OF N SUB2 O SUES, AND STIRRING AT ODEGREES GAVE NO SUB2 (ALINO SUB3) SUB4). BOTH COMPCS. ARE CRYST., HYGROSCOPIC, SOL. IN H SUB2 O DECOMPG. INTO CS PRIME POSITIVE, AL PRIMESPOSITIVE, AND NO SUBS PRIME NEGATIVE. CSCALCNO SUB3) SUB4) AT 100DEGREES FORMED NO SUB2 AND O. IT DECOMPD. COMPLETELY AT 300CEGREES GIVING CSNO SUB3 AND AL SUB2 O SUB3. NO SUB2 (AL(NO SUB3) SUB4), M. 85DEGREES, DECOMPD. AT 110-35DEGREES INTO AL SUB2 O SUB3, NO SUB2, AND O; ITS HEAT OF SOLN. IN H SUB2 O AT 25DEGREES IS MINUS 69.0 PLUS OR MINUS 0.1 KCAL.-MOLE AND ENTHALPY OF FORMATION H SUB298 EQUALS FACILITY: MINUS 238.4 PLUS OR MINUS 1.0 KCAL-MOLE. KHIM. PROBL., CHERNOGOLOVKA, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

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UNCLASSIFIED

PROCESSING DATE--020CT70 TITLE-THE UNDERWATER IRRADIANCE METER EMPO-64 AND ITS USE FOR THE OPTICAL

STUDIES IN THE SEA -U-

AUTHOR- (02)-KARELIN, A.K., PELEVIN, V.N.

CCUNTRY OF INFO--USSR

SOURCE--GKEANOLOGIYA, 1970, VOL 10, NR 2, PP 369-373

DATE PUBLISHED ---- 70

SUBJECT AREAS-EARTH SCIENCES AND OCEANOGRAPHY

TOPIC TAGS-SEA WATER, LIGHT ABSORPTION, UNDERWATER EQUIPMENT, UNDERWATER OPTICS, INDEX, OCEANOGRAPHIC INSTRUMENT

CENTROL MARKING -- NO RESTRICTIONS

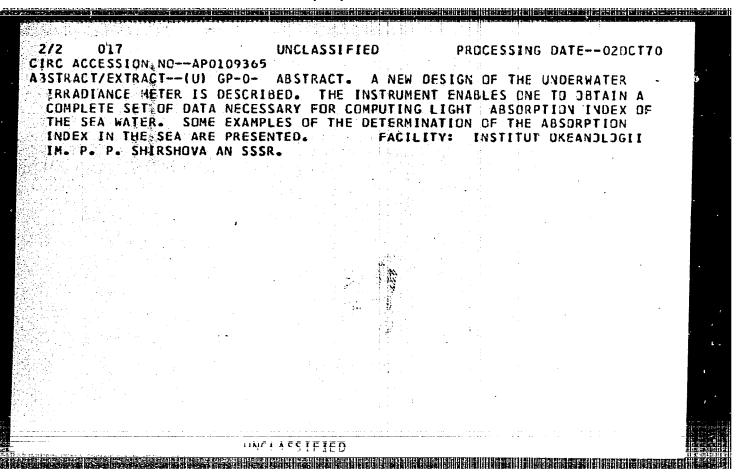
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1990/1281

STEP NU--UR/0213/70/010/002/0369/0373

CIRC ACCESSION NO--APO109365

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"



UDC 621.762:669.018.5(088.8)

AMOSOV, V. M., KARELIN. B. A., KITAYEV, B. L., SAVICHEYA, M. A., GUSEV, A. M., PAPILOV, V. P., and STEPANOVA, T. I.

"Powder Metal Alloy"

USSR Author's Certificate No 254092, filed 12 Jun 69, published 20 Mar 70 (from RZh-Metallurgiya, No 11, Nov 70, Abstract No 11G357 P)

Translation: A powder metal electrode alloy based on W is proposed for spark gaps. To stabilize the emission properties and to increase the rate of electrode atomization barium zirconate is introduced into the alloy composition. The barium zirconate possesses stable properties under the conditions of exploitation and does not interact with the remaining components of alloy during sintering in the temperature interval 1550-1600°. The alloy is of the following composition: 0.5-4% Ni, 4-5% barium zirconate, and the remainder -- W. The alloy structure is in the form of fine-grain W, coated with solid W solution in Ni, and dispersed particles of barium zirconate uniformly distributed in grains and along grain boundaries.

V. Chelnokov

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

UDC 005.513.5:025.135(088.8)(47)

COLDYREV, V. I., KARELIN, B. V., TYUTIKOV, L. S., Scientific Research Institute of Control Computers and Systems

"A Device for Retrieving Edge-Punched Cards"

USSR Author's Certificate No 318969, Division G, filed 9 Mar 70, published 24 Jan 72 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 11, Nov 72, abstract No 118344P)

Translation: A device is proposed which contains a base, a vibration platform, a punchcard magazine with support strips, and selector racks which
are kinematically coupled to the keyboard levers of the code set-up mechanism. In order to increase speed, the device contains double-arm levers
with the selector rack fastened on one arm, while the other arm is connected
to the keyboard lever of the code set-up mechanism. Four illustrations.

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- 59 -

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

UDC 002.513.5:676.815

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KARELIN, B. V., and BATUYEV, S. N.

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"Study of Uniterm-Card-Type Information Media"

Moscow, Nauchno-Tekhnicheskaya Informatsiya, Seriya 1, Organizatsiya i Metodika Informatsionnoy Raboty, No 5, 1972, pp 18-20

Abstract: The article describes a new method of recording numbers of documents on uniterm cards which cuts down on card area and number comparison time. The Scientific Research Institute of Control Machines and Systems compared this method with M. TAUBE's method in an experiment involving the use of descriptor language. The results indicate a time saving of 12-28 percent and a card area reduction of 6-18 percent. The method is being used in the instrument-manufacture sectorial information-retrieval system "Referat" (Abstract).

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

Computers: Digital

USSR

\JC: 005.013.5:025.135

GOLDYREV, V. I., KARELIN, B. V., TYUTIKOV, L. S., Scientific Research Institute of Control Computers and Systems

"A Device for Retrieval of Edge-Punched Cards"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 32, Nov 71, Author's Certificate No 318969, Division G, filed 9 Mar 70, published 28 Oct 71

Translation: This Author's Certificate introduces a device for retrieval of edge-punched cards. The unit consists of a base, a vibration platform, a punchcard magazine with support fingers, and selector racks which are kinematically coupled to the key levers of a code setup mechanism. As a distinguishing feature of the patent, the speed of the device is increased by using two-armed levers with a selector rack coupled to one arm and a key lever of the code setup mechanism connected to the other.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

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WC 547.772'539.4

KARELE, B. YA., KALMIN', S. V., GRINBERG, I. P., and NEYLAND, O. YA., Riga Polytechnical Institute

"Iodonium Derivatives of Heterocyclic Compounds. I. Phenyliodonium Salts and Betaines of Pyrazoles"

Riga, Khimiya Geterotsiklicheskikh Soyedineniy, No 2, Feb 73, pp 245-248

Abstract: A method was developed for the synthesis of phenyliodonium derivatives of pyrazoles. Reaction of pyrazole, 3.5-diphenylpyrazoles and 3.5-diemthylpyrazoles with phenyliodosoacetate in presence of p-toluenesulfonic acid yields the tosylates of 4-phenyliodoniopyrazoles which upon treatment with alkali convert to 4-phenyliodoniopyrazole betaines. By means of exchange reactions the tosylates were converted to respective chlorides, bromides and iodides. Betaines reacted with hydrogen fluoride and hydrogen borofluoride to yield 4-phenyliodoniopyrazole fluorides and borofluorides. On the basis of electron absorption spectra the ionization constants of a series of phenyliodonium derivatives of pyrazoles have been calculated. 4-Phenyliodonium group increases the acidity of pyrazoles by 4.5-5 orders of magnitude.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

UDC 534.121.2:661.7

APEL'TSIN, I. E., KARELIN, F. N., LISHNEVSKIY, V. A., DUBYAGA, V. P., PEREPECHKIN, L. P., MIRONOVA, Fra V., and ZAYCHUKOVA, N. A.

"Acetylcellulose Membranes for Desalination of Water by Hyperfiltration"

Moscow, Vodosnabzheniye i Sanitarnaya Teknika, No 6, 1971, pp 18-19

Abstract: Three types of membranes are reported suitable for water desalination. One prepared from an acetone solution of acetylcellulose "Etrol B" with a small quantity of water and magnesium perchlorate was deposited on glass at -12°C, kept in air for 3.5 min, the membrane was separated from glass and kept in water at 80° for 70 min. Such a membrane gave a 84-88% desalination with 500 1/m² day of water passage at 50 atm pressure. Using the same "Etrol B" acetyl cellulose in acetone and formamide, the membrane was formed on glass at 18°C, then treated at 80°C for 30 min. This membrane gave a 83-85% desalination with 800 1/m² day passage capacity at 50 atm pressure. Acetyl cellulose membranes prepared from acetic acid solution containing triethanolamine acetate and sulfate admixtures gave a 90-91% desalination with 300 1/m² day passage of water at 65 atm pressure.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

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UDC 389.0.681.2.083.7

VOSTRIKOV, Yu. A. and KARFLIN N. M.

"Application of Asymptotic Methods for Seeking the Distribution Laws of the Metrological Characteristics of a Remote-Acting Differential-Transformer Measuring System".

Moscow, Metrologiya, No 7, 1972, pp 3-9

Abstract: The problem of seeking the distribution laws of the metrologic characteristics of a remote-acting differential-transformer measuring system is dealt with. These characteristics are nonlinear functions of many random arguments. The application of asymptotic methods permits the desired distribution laws to be obtained in the form of approximate expressions that are suitable for use in practice. Three asymptotic formulas are derived, which yield good results even in the first approximation if the remainder is smaller than unity even by one order of magnitude. If the remainder of the first approximation is insufficiently small, a second approximation can yield satisfactorily exact approximate results. But if the remainder of the second approximation is still too large, the asymptotic formulas cannot be used for approximate calculations. I table. I figure. 5 references.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

MELIKHOV, A. N., KARELIN, V. P. and KUREYCHIK, V. M.

"Cutting of a Graph into Subgraphs"

Mat. Modelir. i Teoriya Elektr. Tsepey [Mathematical Modeling in the Theory of Electric Circuits -- Collection of Works], No 10, Kiev, Nauk. Dumka Press, 1973, pp 70-75 (Translated from Referativnyy Zhurnal Kibernetika, No 9, 1973, Abstract No (V417)

Translation: Problems of the cutting of arbitrary finite graphs into maximally connected subgraphs are studied. A formal method is suggested for solution of this problem. The method is based on the determination of permutations maximizing the number of units in the diagonal sections of a contiguity matrix of the initial graph. The algorithm suggested is used to write and debug a program for optimal sectioning of graphs on the Minsk-22 computer.

Author's view

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

UDC: 577.4

MELIKHOV, A. N., GUZIK, V. F., KARELIN, V. P., MIRONOV, B. N.

"On Optimizing the Adjustment of Linear Digital Integrating Structures"

V sb. Vychisl. sistemy (Computer Systems--collection of works), vyp. 47, Novosibirsk, 1971, pp 18-31 (from RZh-Kibernetika, No 8, Aug 72, Abstract No 8V452)

[No abstract]

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UDC: 51:621.391

1864 | Print | Print | | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884

MELIKHOV, A. N., BERSHETYN, L. S., KARELIN, V. P.

"On Isomorphic Embedding of Graphs and Abstract Automata"

Tr. Seminara po metodam mat. modelir. i teorii elektr. tsepey. In-t kibernet.

AN USSR (Works of the Seminar on Methods of Mathematical Modeling and Electric Circuit Theory. Institute of Cybernetics, Academy of Sciences of the UkrSSR), 1970, vyp. 7, pp 95-104 (from RZh-Kibernetika, No 1, Jan 71, Abstract No 1V334)

Translation: Algorithms are described for recognition of isomorphic embedding of graphs and abstract automata. In the authors' opinion, these algorithms are suitable for realization on digiral computers. Some properties of isomorphic embeddings of graphs and automata are established.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

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USSR

UDC: 661.143

BOZHEVOL'NOV, V. Ye., PRISELKOVA, K. D., SOLOV'YEV, B. N., ZARUBIN, O. V., KARELIN, V. V.

"Preparation of Continuous-Action Brightness Standards"

Sb. Nauch. tr. VNII lyuminoforov i osobo chist. veshchestv (Collected Scientific Works of the All-Union Scientific Research Institute of Phosphors and Extra Pure Substances), 1971, vyp. 6, pp 95-98 (from RZh-Khimiya, No 15, Aug 72, Abstract No 15L187)

Translation: New methods are proposed for making phosphor brightness standards for the green, blue and orange regions of the spectrum in the form of polymer discs and flexible screens. These methods are simpler and more reliable than conventional methods, and are suitable for all grades of phosphors. Standards based on Cl4 are exceptionally stable (25% brightness fall-off in three years), and also are distinguished by high brightness, mechanical strength, and will withstand being kept for several days in a ferrous sulfate dosimetric solution without losing brightness. Standards made with tritium are safe from the dosimetric standpoint and have high mechanical strength and constant brightness yield (drop in brightness only 3-4% in one year).

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

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UNCLASSIFIED ...

TITLE--PURIFICATION OF PETROLEUM INDUSTRY WASTE WATERS BY PRESSURIZED PROCESSING DATE--13NOV70

¢.5

AUTHOR-(03)-KARELIN, YA.A., PALIY, P.A., SOKOLOV, A.G.

COUNTRY OF INFO--USSR

SOURCE--NEFT. KHUZ. 1970, 48(3), 63-5

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MECH., IND., CIVIL AND MARINE ENGR. MATERIALS

TOPIC TAGS -- PETROLEUM INDUSTRY, INDUSTRIAL WATER, WATER PURIFICATION, PETROLEUM PRODUCT, WATER POLLUTION CONTROL

CONTROL MARKING--NO RESTRICTIONS

DGCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/1955

STEP: NO--UR/0093/70/048/003/0063/0065

CIRC ACCESSION NO--APOL33799

UNCLASSIFIED

2/2 014 UNCLASSIFIED PROCESSING DATE--13NOV70
CIRC ACCESSION NO--APO133799
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACI. WATERS CONTG. 50-100 MG-L.
SUSPENDED MATTER, OBTAINED FROM THERMAL CHEM. DEHYDRATION OF GAS SATD.
PETROLEUMS, WAS PURIFIED BY SETTLING IN HORIZONIAL AND SPHERICAL TANKS AND COULD BE INJECTED INTO DISPOSAL AND PRODUCTIVE WELLS IN HIGHLY FRACTURED STRATA. THE METHOD WAS A PRELIMINARY TREATMENT FOR WATER INTENDED TO BE FILTERED FOR FLOODING PRODUCTIVE STRATA.

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE-300CT70
TITLE-EXAMINATION OF TRANSAMIDINASE AMIDINOTRANSPHERASE ACTIVITY IN THE
BLOCD SERUM OF DOGS WITH EXPERIMENTAL PANCREONECROSIS -UAUTHOR-(03)-MARDASHEV, S.R., KARELINA, A.A., KARGASHIN, I.A.

COUNTRY OF INFO--USSR

SOURCE—PATOLOGICHESKAYA FIZIOLOGIYA I EKSPERIMENTAL NAYA TERAPIYA, 1970, VOL 14, NR 3, PP 8-11
DATE PUBLISHED———70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-PANCREATITIS, TRANFERASE, ENZYME ACTIVITY, NECROSIS, DIAGNOSTIC MEDICINE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/1923

STEP NO--UR/0396/70/014/003/0008/0011

CIRC ACCESSION NO-APO127324

UNCLASSIFIED

2/2 020 UNCLASSIFIED PROCESSING DATE-300CT70 CIRC ACCESSION NO-APO127324 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. THIS WORK WAS DONE ON DOGS WITH HEMORRHAGIC PANCREONECROSIS CAUSED BY THE ADMINISTRATION OF BILE INTO THE PANCREATIC DUCT. TRANSAMIDINASE (AMIDINOTRANSPHERASE) ACTIVITY WAS REVEALED IN THE 8LGOD OF THESE DOGS 6 TO 12 HOURS AFTER THE BEGINNING OF PANCREONECROSIS. IN CASE OF PANCREATITIS CAUSED BY THE ADMINISTRATION OF SODIUM TAUROCHOLATE WITH TRYPSIN INTO THE PANCREATIC DUCT. PANCREONECROSIS OCCURRED COMPARATIVELY LATE AND TRANSAMIDINASE HAS REVEALED IN THE BLOOD 18 HOURS AFTER THE ONSET OF THE AFFECTION. FACILITY: KAFEDRA BIOKHIMII I MOSKCVSKOGO MEDITSINSKOGO INSTITUT. FACILITY: IM. I. M. SECHENOVA I LABORATORIYA ENZIMOLOGII INSTITUTA BIONEDKHIMII AMN SSR, MOSKVA. UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

KARELSKAYA, A.

"Transplantation Sickness and Gangleron"

Moscow, Nauka i Zhizn', No 9, Sep 70, pp 34-35

Abstract: Prevention of the development of the secondary radiation sickness known as transplantation sickness has been studied at the Scientific Research Institute of Hematology and Blood Transfusion imeni R. O. Yeolyan, Ministry of Health Armenian SSR. Dogs, rabbits, and rats were used in the experiments. The animals were irradiated and then received 3-4 bone marrow transplants. The animals readily withstood the operation, and their general condition, appetite, and blood picture rapidly returned to normal. Rejection and incompatibility soon developed, however. Tests with dimedrol and novocaine to suppress immunity met with little success. Gangleron, a ganglion and central nervous system blocking preparation synthesized at the Academician A. A. Mndzhoyan, was applied. Gangleron prevents the development of spasms in the smooth muscles and dilates the block vessels which carry blood to the heart. The best results were obtained by administration

USSR

KARELSKAYA, A., Nauka i Zhizn', No 9, Sep 70, pp 34-35

of gangleron in doses of 2 mg/kg body weight in combination with prednisolone for periods of 3-4 weeks. In preparing for the transplant, both donor and recipient were given the combination of drugs, in order to deprive their tissues of that aggressiveness which is the cause of the development of antibodies. Such methods of preparing for the operation produced a survival rate of 96%. The search for additional methods of preventing the development of transplantation sickness is continuing.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

KAREL'SKAYA, L.

Winter Swimming - A Medical Problem"

Moscow, Nauka i Zhizn', No 3, pp 122-123

Abstract: Winter swimming in icy waters has recently become a widespread "movement" in the USSR, as a neans of physical conditioning. Estimates are that 30,000 persons are now engaged in it, including, for example, more than 600 workers at the Cherepovets letallurgical Combine. The trade union All-Union Council of Voluntary Sport Societies recently formed a special commission on this subject, and the bulk of this article is comments by Professor Serafim Petrovich Letunov, chairman of the commission, on the health aspects of this activity. He refers to tests by Moscow scientists that showed no changes in the cardiovascular systems of winter swimmers, and a study of eight persons with hypertension in Yalta, where four showed decreased pressure after swimming, two showed no change, and two had increased pressure. Studies of the reaction of the adrenal cortex to irritation by cold were conducted in Saratov. A hormone restructuring took place and the swimmers developed greater resistance to external influences, especially during the first two years of sulmning. Gland activity was stable, but on a higher level than for 1/2

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KAREL'SKAYA, L., Nauka i Zhizn', No 3, 71, pp 122-123

non-swimmers. Several tests, the doctor said, indicated that winter swimmers suffer fewer colds and flu, and recover more easily. The one danger that is now known concerns the nervous system. While 25 kilocalories is an acceptable load, 50-60 lowers the person's work capacity, and 85 kilocalories can destroy it entirely. The doses of cold must be limited, it is concluded. As a final note, it is stated that psychologists, sociologists, and biologists are now studying this sport phenomenon.

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- 94 -

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

Acc. Nr: Apro049842 Abstracting Service: CHEMICAL ABST. 5-70

THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY PR

Ref. Code: UR 0080

101339j Porous structure of nonactivated carbon adsorbents from industrial types of phenol-formaldehyde resins. Plachenov, T. G.; Sevryugov, L. B.; Pulerevich, M. Ya.; Karel'skava V. F. (Leningrad, Tekhnol, Inst., im. Lensoveta, Leningrad, USSR). Zn. Prikl. Khim. (Leningrad) 1970, 43(1), 97-101 [Russ]. Carbonization of a resol-type phenol-HCHO resin and a phenol-PhNH2-HCHO resin at 400-1000° under N gave C adsorbents baving extremely low pore vols. and radii in the range 2.9-280,000 A. The adsorbents allowed C₆H₆ mols. to pass, but not MeOH mols. A considerable expansion of the pore structure in the range of 2.9-280,000 Å was obsd. when the PhOH-HCHO mole ratio was reduced to 0.85: 1.

REEL/FRAME

USSR

UDC 616.832-007.235-057.9

KAREPOV. G. V., and KAREPOVA, I. D., Kirovskaya Oblast Station of Labor Hygiene and Occupational Diseases

"A Case of Syringomyelia Whose Clinical Manifestations Were Job-Related"

Moscow, Gigiyena Truda i Professional'nyye Zabolevaniya, No 7, 1971, pp 54-55

Abstract: A detailed case history of a man 40 years old who had worked on an electrolyzer in an aluminum plant is given. The job entailed considerable physical exertion and exposure to high temperatures, vibration, fluoride compounds, and carbon monoxide. The course of the disease was marked by severe motor disturbances, muscular atrophy, and degenerative changes in the bones and joints. The disease progressed as a result of repeated microhemorrhages in the spinal cord. Hematomyelia was provoked by extreme physical exertion, overheating, and possibly vibration. The diagnosis was syringomyelia, mixed motor and trophic form, mixed cervicothoracic and bulbar type.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

UDC 616.832-007.235-057.9

KAREPOV, G. V., and KAREPOVA, I.D., Kirovskaya Oblast Station of Labor Hygiene and Occupational Diseases

"A Case of Syringomyelia Whose Clinical Manifestations Were Job-Related"

Moscow, Gigiyena Truda i Professional'nyye Zabolevaniya, No 7, 1971, pp

Abstract: A detailed case history of a man 40 years old who had worked on an electrolyzer in an aluminum plant is given. The job entailed considerable physical exertion and exposure to high temperatures, vibration, fluoride compounds, and carbon monoxide. The course of the disease was marked by severe motor disturbances, muscular atrophy, and degenerative changes in the bones and joints. The disease progressed as a result of repeated microhemorrhages in the spinal cord. Hematomyelia was provoked by extreme physical exertion, overheating, and possibly vibration. The diagnosis was syringomyelia, mixed motor and trophic form, mixed cervicothoracic and bulbar type.

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1/2 019 UNCLASSIFIED
TITLE—DEVELOPMENT OF THERMIONIC CONVERTERS -U-

PROCESSING DATE-13NOV70

AUTHOR-(02)-DANILOV. YU.I., KARETNIKOV, D.V.

CCUNTRY OF INFO-USSR, ITALY, WORLD WIDE

SOURCE-AT. ENERG. 1970, 28(1), 33-7

DATE PUBLISHED ----- 70

SUBJECT AREAS-ELECTRONICS AND ELECTRICAL ENGR.

TOPIC TAGS-THERMIONIC ENERGY CONVERSION, ELECTRIC ENGINEERING CONFERENCE. ELECTROMECHANIC CONVERTER

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—1993/0620

STEP NO--UR/0089/70/028/001/0033/0037

CIRC ACCESSION NO--APOLISTO

UNCLASSIFIED

2/2 019	UNCLASSIFIED	PROCESSING DATE-13NOV70)
CIRC ACCESSION NOAPO11350 ABSTRACT/EXTRACT(U) GP-0- AT THE SECOND INTERNATION ITALY, MAY 1968, AND OF	ABSTRACT. A REVIEW (A. conserence:on:THERM)	ICHAIC COMACKICNOS SINCOMI	ı
IN THIS FIELD.			
		清建,1966年1月1日 - 1967年1月1日 - 1967年1日	
취임 : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	NCLASSIFIED		

1/2 041 UNCLASSIFIED PROCESSING DATE--20NUV70 TITLE--ELECTRON DISTRIBUTION FUNCTION IN A KNUDSEN DISCHARGE PLASMA IN

AUTHOR-(G3)-EYRDIN, YU.A., EYRDINA, T.G., KARETNIKOV, D.V.

CEUNTRY OF INFO--USSK

SOURCE--TEPLOFIZ. VYS. TEMP. 1970, 8(2), 246-51

DATE PUBLISHED ---- 70

SUBJECT AREAS--PHYSICS, ENERGY CONVERSION (NGN-PROPULSIVE)

TOPIC TAGS--ARGON, DISCHARGE PLASMA, THERMIONIC ENERGY CONVERSION, ELECTRON BEAM

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/1411

STEP NO-UR/0294/70/0C8/002/0246/0251

CIRC ACCESSION NO--APO133363

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

PROCESSING DATE--20NOV70 UNCLASSIFIED 2/2 CIRC ACCESSION NO-AP0133363 ABSTRACT. THE ELECTRON DISTRIBUTION FUNCTION ABSTRACT/EXTRACT--(U) GP-0-IN A KNUDSEN ARE PLASMA IN AR WAS MEASURED BY THE METHOD OF DOUBLY DIFFERENTIATED PROBE CHARACTERISTICS OF A PLANE PARALLEL DIODE. THE CIRCUIT SCHEME FOR THE DOUBLE DIFFERENTIATION IS SHOWN. THIS METHOD ALSO ENABLES CHE TO DET. PLASMA PARAMETERS. AN EXCESS OF FAST ELECTRONS WAS FOUND IN THE PLASMA IN COMPARISON WITH THE MAXWELL DISTRIBUTION. THE PRESENCE OF ELECTRONS WITH HIGHER ENERGIES, EXCEEDING THE NEAR CATHODE BARRIER, CONFIRMS A STRONG INTERACTION BETWEEN THE ELECTRON BEAM AND PLASMA OSCILLATIONS. THIS MECHANISM MAY TAKE PLACE IN THERMIONIC ENERGY CONVERTERS OPERATED IN THE ARC MODE. FACILITY: ENERG. IM. KURCHATOVA, MOSCOW, USSR. UNCLASSIFIED

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USSR

VDC 541.64:535.4

FEDOTOVA, O. YA., GOROKHOV, V. I., PARESISHVILI, O. I., KARITHIKOV, G.S. and KOLESNIKOV, G.S. (deceased), Moscow Chemical Technological Institute Imeni D. I. Mendeleyev

"Study of the Thermal Degradation and Thermal Oxidation of Phosphorus Containing Polyimides"

Moscow, Vysokomolekularnyye Soyedineniya, Vol 14, No 6, Jun 72, pp 1256-1266

Abstract: A study has been carried out on thermal and thermal-oxidative degradation of polymides using the model reaction of the anhydride of di-(3.4-dicarboxyphenyl)-phenylphosphine oxide with various aromatic diamines. It has been shown that the thermal stability of phosphorus containing polyimides depends on the thermal stability of the imide cycle, whose stability in turn depends on the structure of the diamine. The low molecular weight products of thermal degradation consist of hydrogen. Out, out, benzene, methane, ammonia, water, and traces of ethylene. Using EPR method, it was shown that in the solid products of thermal and thermal oxidation degradation the rate of the accumulation of paramagnetic centers depends on the structure of the diamine radical. Increasing concentrations of paramagnetic

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USSR

FEDOTOVA. O. YA., et al. Vysokomolekularnyye Soyedinemiya, Vol 14, No 6, Jun 72, pp 1256-1266

centers in the polymer lead to higher thermal degradations. Resistance to thermal exidative degradation depends on the structure of diamine used in the synthesis of polymides: introduction of compounds with polyconjugated systems results in a sharp increase in the exidation rate of the polymer.

2/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

UDC 621.372.413

USSR

KRAVCHENKO, V. F., KARETNIKOV, S. N., and BOBRYSHEV, V. D.

"Calculating Limit Resonators"

Radiotekhnika. Resp. mezhved. temat. nauch.-tekhn. sb. (Radio Engineering. Republic Interagency Thematic Scientific-Technical Collection of Articles), 1972, vyp.21, pp 107-113 (from RZh-Radiotekhnika, No 11, Nov 72, Abstract No 11 Bl22)

Translation: A relationship is obtained which is not only suitable for calculating regularly-nonregular limit resonators, but which also reflects some regularities associated with variation in the geometry of a resonator. It is shown that the Q-associated with variation in the geometry of a resonator. It is shown that the Q-factor of an Holl wave biconical resonator is more than two times greater than the Q-factor of a regular cylindrical resonator. It is noted that is is possible to achieve values of the loaded Q-factor which exceed 5.104 for a basic type of oscillation. Original article: four illustrations, two tables, and 13 bibliographic entries.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

Waveguides

USSR

UDC: 621.372.822

KRAVCHENKO, V. F., KARETNIKOV S. N., USTIMENKO, V. V., KAR-MAKULOV, V. S.

"Experimental Investigation of Scattering and Transmission of Electromagnetic Waves by Spherical Nonhomogeneities in a Rectangular Waveguide"

Radiotekhnika. Resp. mezhved. temat. nauch.-tekhn. sb. (Radio Engineering. Republic Thematic Interdepartmental Scientific and Technical Collection), 1971, vyp. 17, pp 39-44 (from RZh-Radiotekhnika, No 3, Mar 72, Abstract No 3B110)

Translation: In connection with the proposed method of calculation, which is used in solving internal problems of electrodynamics on scattering and transmission of electromagnetic waves by a rectangular waveguide with nonhomogeneities of regular shape, experimental studies which showed the singularities in measurement of the reflection factor were done. Ways are indicated for using the discovered experimental effects in the development of specific microwave devices. Six illustrations, bibliography of six titles. Resume.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

UNCLASSIFIED 1/2 TITLE--THERMUDYNAMIC FUNCTIONS OF SIX SUB2 YZ TYPE HALOSILANES -U-

AUTHOR-(05)-MASICV, P.G., USVYATTSEVA, T.R., BOYKO, V.G., KARETNIKOVA,

N.L. YENGALYCHEV, YU.S.

SOURCE--ZH. FIZ. KHIM. 1970, 44(3), 825

DATE PUBLISHED ----- 70

SUBJECT AREAS--CHEMISTRY, PHYSICS

TOPIC TAGS-THERMODYNAMIC FUNCTION, SILANE, SILICON COMPOUND, GAS STATE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1993/0276

STEP NU--UR/0076/70/044/003/0825/0825

CIRC ACCESSION NO--APOLIBZO6

UNICEASSIFIED ---

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

PROCESSING DATE--0200170 UNCLASSIFIED 2/2 CIRC ACCESSION NO--APO113206 ABSTRACTZEXTRACT--(U) GP-0- ABSTRACT. FORMULAS ARE DERIVED FOR THE CALCH. OF THERMODYNAMIC PROPERTIES OF 12 GASEOUS HALDSTLANES SIX SUB2 YZ (X, Y, Z EQUAL F, CI, BR, T) AS FUNCTION OF TEMP. AND PRESSURE. THEY WERE OBTAINED BY THE METHOD REPORTED EARLIER (CA 64: 16715F). FORMULAS ARE VALID FOR C SUBRHODEGREES AND ENTHALPY IN TAUDEGREES MINUS H SUBODEGREES) AT 250-1000DEGREESK (ACCURACY 0.2-3PERCENT); AS WELL AS FOR ENTRUPY AT 250-1500-2000DEGREESK (ACCURACY 0.2-1.5DEGREES). VALUES OF FACILITY: LENINGRAD, GOS. COEFFS. IN THESE FORMULAS, ARE GIVEN. PEDAGUG. INST. IM. GERTSENA, LENINGRAD, USSR.

1/2 008 UNCLASSIFIED PROCESSING DATE--30DCT70

TITLE--USE OF OLEFINS FOR PREPARING ALKYL SULFONATES -U-

AUTHOR-(05)-TYUTYUNNIKOV, B.N., KARETNIKOVA, V.S., BUKHSHTAB, Z.I.,

YUSHCHENKO, YE.P., GASYUK, L.V. COUNTRY OF INFO--USSR

SOURCE--NEFTEPERERAB. NEFTEKHIM. (MOSCOW) 1970, (2), 34-6

DATE PUBLISHED----70

SUBJECT AREAS -- CHEMISTRY, MATERIALS

TOPIC TAGS--ALKENE, BIODEGRADABLE DETERGENT, AMMONIUM COMPOUND, SULFONATION, SULFITE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0568

STEP NO--UR/0318/70/000/002/0034/0036

CIRC ACCESSION NO--APOIL9486

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

2/2 008 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--AP0119486 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. NH SUB4 HSO SUB3 WAS ADDED TO HIGHER ALPHA OLEFINS IN THE PRESENCE OF OXIDIZERS TO PRODUCE BIODEGRADABLE SULFONATE DETERGENTS. AIR BUBBLING AND PEROXIDES WERE USED IN THE PRESENCE OF SALTS OF METALS WITH VARIABLE VALENCE. THE REACTANTS WERE HEATED IN CYLINDRICAL REACTORS TO SODEGREES AND AIR BUBBLED THROUGH FOR 4 HR, THEN THE REACTION MIXT. HAS TRANSFERRED TO THE SETTLER AND COOLED TO 20-5DEGREES. AFTER 3-4 HR, A MINERAL SALT LAYER WAS SEPD. TO BOTTOM. THE UPPER HYDROCARBON LAYER WAS RECYCLED. THE MIDDLE LAYER, CONTG. AN ALC. AN. SOLN. OF SULFONATES, WAS DIED. 1:1 WITH H SUB2 O AND THE REMAINING HYDROCARBONS WERE EXTD. WITH GASOLINE. THE SULFONATES WERE CONCO. BY DISTG. OFF ALCS. AND H SUB2 D TO OBTAIN AN NH SUB4 ALKYLSULFONATE CONC. CONTG. 45-53PERCENT ACTIVE SUBSTANCE. DATA ON THE PROCESS ARE PRESENTED. FACILITY: KHAR!KOV. POLITEKH. INST. IM. LENINA, KHARKOV, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

UDC: 621.314.2

STEPANOV, V. D., KARETNIKOVA, YOURTHAND

"A High-Voltage Piezoceramic Transformer"

USSR Author's Certificate No 277880, filed 16 Dec 68, published 6 Nov 70 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6V427 P)

Translation: The proposed high-voltage piezoceramic transformer contains input and output sections equipped with electrodes which are located on the opposite sides of piezoceramic plates. As a distinguishing feature of the patent, the transformation ratio is increased and the resonance frequency is raised by making the input section in the form of a stack consisting of the main piezoceramic plate and additional plates fastened to it. The electrodes of a feedback section are placed along with the cutput section on the two sides of the continuation of the main plate. The input section and feedback section are polarized counter to each other, and the output section consists of two counter polarized segments and is equipped with an end electrode.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR UDC 632.954

KARETSKAYA N. A. Krasnodarsk Vegetable-Potato Plant Breeding Station

"The use of Treflan Against Weeds on Seedling and Seed Tomato Cultures in Krasnodarsk Territory"

Moscow, Khimiya v Sel'skom Khozyaystve, Vol 9, No 4 (90), 1971, pp 28-29

Abstract: The use of 1-4 kg/ha of treflan on the seed and seedling tomato cultures planted on Caucasus soil resulted in 90-95% destruction of prickly grass, foxtail, common amaranth and other annual weeds. The action of this herbicide lasted throughout the entire vegetative period. For higher effectiveness the preparation had to be mixed thoroughly with the upper soil layer -- 0-10 cm deep -- by means of a cultivator. Tomato seedlings were not affected by treflan, even a 2-4 kg/ha dose showing no detrimental effect on the vegetable. When tomato seeds were planted, treflan could not be used in 1-4 kg/ha amounts, as it lowered the yield of the vegetable considerably.

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CIA-RDP86-00513R002201220003-9"

APPROVED FOR RELEASE: 07/20/2001

USSR

UDC: 8.74

KAREV C. P.

"On the Probabilities of Degeneration in Certain Models of Populations"

V sb. <u>Probl. kibernetiki</u> (Problems of Cybernetics--collection of works), vyp. 25, Moscow, "Nauka", 1972, pp 55-61 (from <u>RZh-Kibernetika</u>, No 6, Jun 72, Abstract No 6V592)

Translation: The paper refines a known method of finding probabilities of degeneration in the case of generalized branching processes. Models of the generalized branching process type do not require independence of multiplication of particles, and one of the theorems shows that the qualitative nature of the statement of probabilities of degeneration of the Galton-Watson process is conserved in this considerably more general situation as well. Author's abstract.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

K

USSR

UDC 615.277.3.038

KAREY, N. I. LICHINITSER, M. R. et al., Institute of Experimental and Clinical Oncology, Academy of Medical Sciences USSR

"Results of Clinical Trials of Asaphan"

Moscow, Voprosy Onkologii, No 5, 1970, pp 41-45

Abstract: Asaphan is a sarcolysin (DL-phenylalanine mustard) derivative with antineoplastic activity in a number of experimental tumors. It was administered (1967-1969) to 184 patients with advanced forms of cancer (ovarian, breast, liver, stomach, kidney, and some others) in 17 hospitals and clinics. Asaphan was mildly effective in the treatment of only ovarian and breast cancer. Its low selectivity of action, severe depression of hematopoiesis, frequency of other side effects, and difficulty in determining optimum doses make the durg undesirable for clinical use.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR

KAREV, P. B., LAVINSKIY, G. V., TOMASHPOL'SKIY, Yu. V.

"Determination of Probability of Detection of an Object with Two-Stage Search"

Teoriya Optimal'n. Resheniy [The Theory of Optimal Decisions -- Collection of Works], Kiev, 1972, pp 127-130 (Translated from Referativnyy Zhurnal, Kibernetika, No 3, Moscow, 1973, Abstract No 3 V300 by the authors).

Translation: One typical problem in search systems is two-stage search for objects in a region. One variety of this problem is presearch, when the observer is already located in the area of possible positions of the target and goes over to the use of detection methods assuring more precise determination of the location of the target than in the preceding stage of search. One of the basic indicators of effectiveness of solution of this problem is the probability of detection of an object, which depends on the accuracy of determination of the location of the target during the search stage and the characteristics of the detection apparatus used in presearch. An expression is produced for this probability in one natural case.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

USSR UDC 535.376

BORODIN, YU.P., BORONIN, V.G., KARSY, YU.A., KRUGLOV, I.I., MIKHAYLOV, L.I., PAYLOVA, V.A., PETRCY, V.S., RYZHIKOV, I.V.

*Study Of The Region Of Radiative Recombination In Electroluminescent Structures Based On Diffusion And Epitaxial Specimens Of Gallium Arsenide"

V sb. Elektrolyuminestsentsiya tverd. tel. (Electroluminescence Of Solid Bodies--Collection Of Works), Kiev, "Nauk.dumks," 1971, pp 54-58 (from RZh--Elektronika i yeye primeneniye, No 11, Nov 1971, Abstract No 118363)

Translation: A comprehensive study is presented of the electrical and optical properties of the region of radiation recombination in diffused and epitaxial specimens. The distribution is obtained of the impurity in the p-region of diffused and epitaxial specimens by means of a measurement of the photolumin-escent spectra. The experimentally determined transition time is: up to 1000 nanosecond with epitaxial specimens and 50 nanosec with diffused. The external quantum efficiency at T =300° K of the diffused and epitaxial specimens equals one percent and five percent, respectively, and for a construction with the maximum possible external quantum efficiency 19 percent. 6 ill. 5 ref. Summary.

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KAREVA, A. P., KLEPTSOVA, I. S., LYUTOVA, I. S., RYAZIISKAYA, T. K.

"Study of the Relation between the State of the Alloy of the Al-Zn-Ng System, Its Electrochemical Potential, and the Corrosion Resistance of the Intermediate Products"

V sb. Metallovedeniye (Physical Metallurgy -- collection of works) Sudostroyeniye Press, 1971, pp 133-136 (from RZh-Metallurgiya, No 4, Apr 72, Abstract No 41679)

Translation: A study was made of the results of comparative studies of the electrochemical potentials of the alloy of the Al-Zn-Ng system in different states. The dependence of the potential on the heating temperature for quenching, annealing, and welding was established. The results of studying the variation of the electrochemical potential during the process of aging the alloys are confirmed by corrosion testing at the laboratory and under natural conditions. Recommendations are made with respect to selecting the heat treatment conditions of the alloy for which corrosion decreases in the weld-affected zone. Two illustrations.

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USSR

UDC 669.715.018.291/539.4+539.2147.539.374

SMIRNOV, M. A., KAREVA, N. T., AGOSHKIN, N. G., and TOLSTOV, A. M.

"Investigation of the Relation of the Hardening of Aluminum Alloy Di6 to Temperature of Plastic Deformation During Thermomechanical Treatments"

V. sb. Materialy XXIII Nauch. - Tekhn. konferentsii Chelyabinsk. politekhn. in-ta. Sekts. Metallurg. Fak. Chelyabinsk (23rd Scientific-technological Materials Conference of Chelyabinsk Polytechnical Institute, Metallurgical Practice Section Chelyabinsk -- Collection of Works), 1970, p 74 (from Referativnyy Zhurnal -- Metallurgiya, No 6, Jun 71, Abstract No 61631 by V. Bochkareva)

Translation of Abstract: Deformation is realized by rolling in the interval of 20-500°. The greatest increase in the stability properties is provided when the plastic deformation occurs at 150° and lower. The best combination of stability and plasticity is achieved by combining plastic deformation at 150° with 12-15% shrinkage with subsequent age hardening.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

1/2 014 UNCLASSIFIED PROCESSING DATE--04DEC 70
TITLE--RADIOPROTECTIVE ACTION OF SOME ANTIDXIDANTS OBTAINED FROM PETROLEUM
PRODUCTS -U-

AUTHOR-(04)-KAREYEV, A.I., GASANOV, G.I., MEKHTIYEVA, S.M., SHAKHGELDIYEV,

COUNTRY OF INFO--USSR

SOURCE--BIOL. NAUKI 1970, (5), 47-55

DATE PUBLISHED-----70

SUBJECT AREAS--MATERIALS, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--RADIOPROTECTIVE ACTION, GASOLINE ANTIOXIDANT, PETROLEUM

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3009/0190

STEP NO--UR/0325/70/000/005/0047/0055

CIRC ACCESSION NO--AP0139053

UNGLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"

2/2 014 UNCLASSIFIED PROCESSING DATE--04DEC70
CIRC ACCESSION NO--APO139053
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. OF 5 AROMATIC QUATERNARY AMMONION
SALTS TESTED, ONLY N,N,DIMETHYL,N, PROPYL,12,HYDROXY,5,BUTYLBENZYLAHINE
WAS APPRECIABLY RADIOPROTECTIVE, AS INDICATED BY ITS EFFECT ON THE
OXIDN.-REON. POTENTIAL OF THE YIBIAL TRICIPITAL MUSCLE OF IRRADIATED
RATS, THE RATE OF BETA-CARCIENE OR OLEIC ACID OXION. IN VITRO, AND ON
THE SURVIVAL RATE OF IRRADIATED RATS. OF 8 PHENOL DERIVS. TESTED, ONLY
O,TERT,BUTYL,P,METHOXYPHENOL OR A MIXT. OF THIS AND
M,TERT,BUTYL,P,METHOXYPHENOL WERE RADIOPROTECTIVE BY THESE CRITERIA.
FACILITY: INST. FIZIOL., BARU, USSR.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201220003-9"